

**ADDENDUM #2
TO SPEC. 05-049**

**REQUEST FOR PROPOSALS
REDEVELOPMENT PLAN
FOR 48TH AND "O" STREET**

Addendum #2 to Spec. 05-049 for Request for Proposals for Redevelopment Plan for 48th & "O" Street, bids originally to be opened on Friday, April 15, 2005 at 12:00 noon. Please note the following:

A copy of the Storm Water Concept Report for the 48th and "O" Street Redevelopment Plan as was requested. It can be viewed at our web site at:

**<http://www.lincoln.ne.gov/city/finance/purch/spec/2005/page1.htm>
Scroll down to Specification 05-049, click on Addendum No. 2.**

All other terms and conditions to remain unchanged.

Dated this 3rd day of March, 2005.

Purchasing Department

Vince M. Mejer
Purchasing Agent

VMM/dw

EXECUTIVE SUMMARY
DEAD MAN'S RUN WATERSHED, BASIN 3 (DR03)

The City of Lincoln contracted with JEO Consulting Group, Inc. to evaluate the existing stormwater system within the study area, identify problem areas and develop conceptual plans to address system deficiencies to reduce flooding potential. The total priority scoring points for each project was also computed using the written scoring system established by the City for prioritizing stormwater capital improvement program (CIP) projects.

The drainage study area is approximately 272 acres in the Dead Man's Run watershed. The study area has a mixed land use consisting of mostly residential areas in the upper and middle portion of the basin, with mostly commercial land use in the lower portion of the basin.

The existing stormwater system evaluation and the hydrologic and hydraulic (H & H) analysis were performed as per the City's drainage criteria manual. The H & H modeling used GEOPAK Drainage modeling software for the minor event (5-year or 10-year) and major event (100-year). The existing inlets, pipes, manholes, open channels and culverts were evaluated in the study area. The drainage study also determined the peak flows at the critical locations, various sump locations, availability of the overland flow paths, minor storm non-structural flooding potential and structural flood frequencies. Deficient inlets, pipes and culverts are also identified in this report.

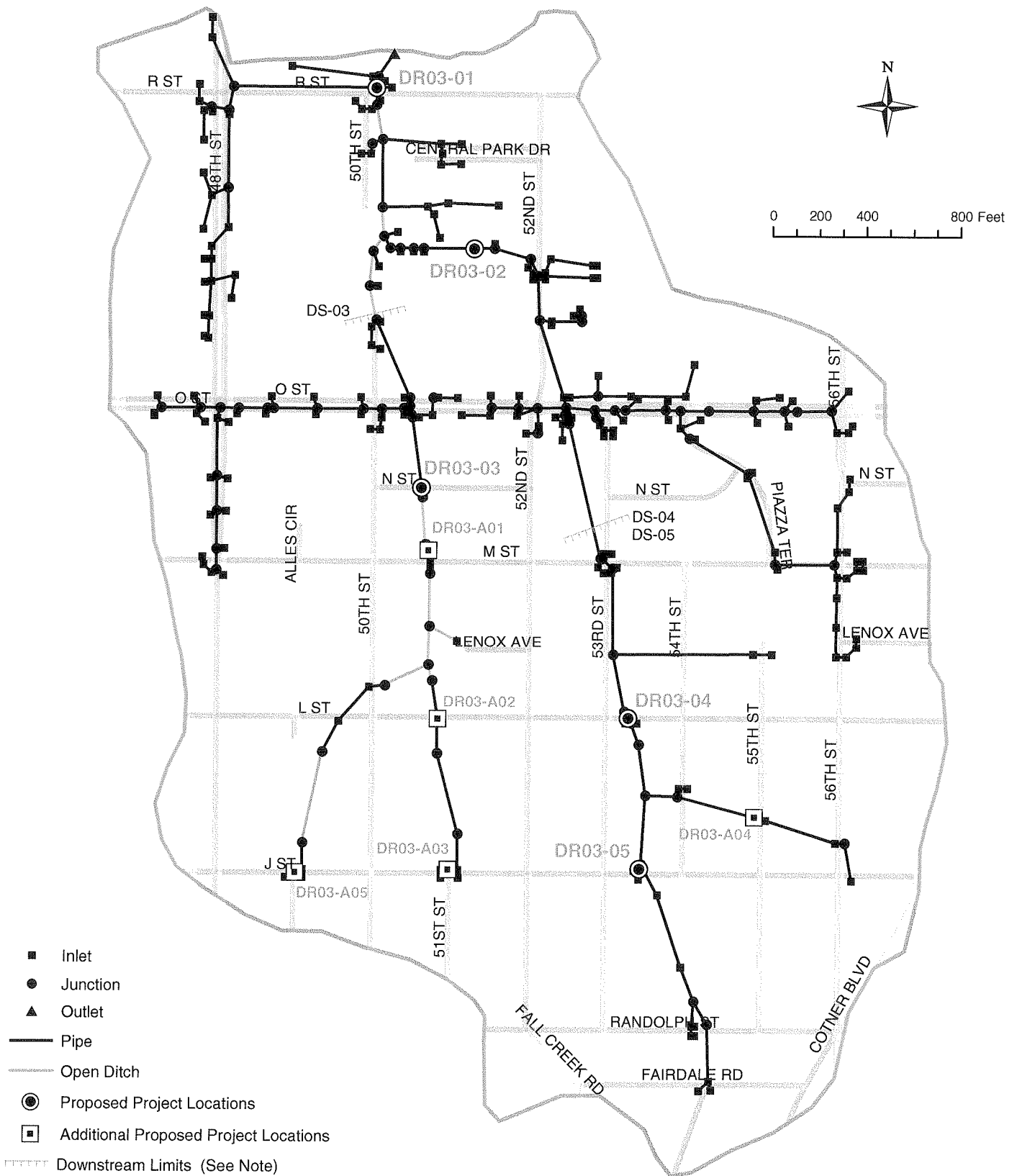
Numerous sump areas were identified in the study area with potential for structural flooding during the minor or major storm event. Two sump areas, at 50th and R Street and on 52nd between O and R Street, indicated the potential for substantial structural flooding during a minor storm event. At 50th and R Street, the proposed project (DR03-01) includes the construction of an overland flow path and the installation of an additional box culvert. Though pipe and inlet deficiencies exist at the sump area on 52nd Street, the proposed project (DR03-02) only includes an overland flow path. This should provide a path away from structures for overflow runoff to travel.

Proposed projects have been recommended for three other areas (DR03-03, DR03-04, and DR03-05) with potential for structural flooding. Improvements for these projects include the replacement of insufficient pipes and/or the installation of lateral pipes and new inlets along adjacent streets. The probable opinion of cost and priority score are provided for each proposed project. Five additional projects are also proposed to address the deficiencies in pipe and inlets as well as overland flow through privately owned property.

It must be noted that the proposed drainage improvement projects are preliminary and shall not be used for construction purposes. No detailed topographic survey has been performed to determine pipe grades or locate existing utilities. Potential conflicts with these utilities may have an effect on final design. The actual locations and size of pipes and inlets may change during final design and preparation of construction plans.

A glossary of the key terms used in this report is included at the end of the summary report.

**Figure 4, Proposed Project Locations
Dead Man's Run Watershed, Basin 3 (DR03)**



NOTE: THE DOWNSTREAM LIMITS FOR PROJECTS DR03-01 AND DR03-02 ARE LOCATED AT THE OUTLET OF THE BASIN AND ARE NOT SHOWN.

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Figure 5, Proposed Project DR03-01

Sump Photo ID	Inlet ID	Overland Flow Path	Overland Photo ID	Structural Flood Frequency	Structures flooded
DR03_001 DR03_002	IDR03164	No	n/a	Minor Storm	5 C

Project DR03-02: 52nd Street between O Street and R Street

According to H & H analysis, street flooding occurs at 52nd Street between O and R Street due to the absence of an overland flow path and undersized pipe. The proposed improvement at this location includes the potential construction of an overland flow path from 52nd Street to the existing open channel to convey overland flows during major storm events. The existing 60" RCP is to remain. The suggested downstream limit of study is located at the outlet of the basin. Refer to Figure 6 for the locations of proposed improvements. If completed, this project will:

- Reduce time of flooding and depth of flooding on 52nd Street between O and R Street.
- Meet City of Lincoln standards for the requirement of 100 year flow.
- Reduce flooding damages at 52nd Street between O and R Street; and at the New Century Building.

Refer to the previously submitted drainage study report "Proposed Overland Flow Path Near 50th and R Street" dated March 18, 2004 and the supplemental report to the drainage study dated June 14, 2004 prepared by JEO, for the detail information on the proposed improvement at this location.

Figure 6, Proposed Project DR03-02



Sump Photo ID	Inlet ID	Overland Flow Path	Overland Photo ID	Structural Flood Frequency	Structures flooded
DR03_012 DR03_013	IDR03180	No	n/a	Minor Storm	5 C